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## (54) PRODUCTION OF CATALYST FOR REMOVING NITROGEN OXIDE

## (57)Abstract:

PURPOSE: To allow the easy and sufficient impregnation of a catalyst compsn. in a ceramics fiber sheet by adjusting the particle size distribution of the catalyst compsn. powder to 50 to 80% particles sized  $\leq 0.5\mu$ , 70 to 85% particles sized  $\leq 1\mu$ , 90 to 95% particles sized  $\leq 5\mu$ , and 92 to 100% particles sized  $\leq 10\mu$ .

CONSTITUTION: The catalyst compsn. powder consisting of titanium oxide and the oxide of  $\geq 1$  kinds of elements among vanadium, molybdenum and tungsten is impregnated in the ceramics fiber sheet to produce the catalyst for removing NOx. The grain size distribution of the catalyst compsn. powder is previously adjusted to the range of 50 to 80% particles sized  $\leq 0.5\mu$ , 70 to 85% particles sized  $\leq 1\mu$ , 90 to 95% particles sized  $\leq 5\mu$ , and 92 to 100% particles sized  $\leq 10\mu$  at this time. The catalyst compsn. powder completely fills the inter-fiber spacings of the ceramics fiber sheet in this way and the easy and sufficient impregnation thereof to the ceramics fiber sheet is possible.

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